

Claims

1. Use of a composition comprising acetogenic fibres for the preparation of a nutritional and/or a pharmaceutical composition for treating, preventing and/or improving metabolic dysfunctions and conditions associated with Type 2 diabetes mellitus or insulin resistance.

5 2. The use according to claim 1, wherein the acetogenic fibre is lactulose, citrus pectin, apple pectin, carrot pectin, soybean fibre, soy fibre, acacia gum, gum Arabic or a mixture thereof.

10 3. The use according to claim 1 or 2, wherein the amount of acetogenic fibres in the composition is in the range of from 0.2 to 90 % by weight, preferably from 0.5 to 50 % by weight, more preferably 0.7 to 30 % by weight, even more preferably 5 to 25 % by weight, most preferred about 7 % by weight, based on the total weight of the composition.

15 4. The use according to any preceding claim, for increasing insulin sensitivity and/or preventing dyslipidemia.

20 5. A method for treating, preventing and/or improving metabolic dysfunctions or conditions with Type 2 diabetes mellitus or insulin resistance which comprises administering an effective amount of a composition comprising acetogenic fibres.

25 6. The method of claim 5 wherein the acetogenic fibres are administered in an amount of from 0.1 to 1.5g per kg body weight, preferably from 0.3 to 0.8g per kg body weight, more preferably 0.5 g per kg body weight

AMENDED CLAIMS

[received by the International Bureau on 17 November 2004 (17.11.2004);
original claims 1 and 5 amended; remaining claims unchanged (1 page)]

1. Use of a composition comprising acetogenic fibres for the preparation of a nutritional and/or a pharmaceutical composition for treating, preventing and/or improving insulin resistance.
2. The use according to claim 1, wherein the acetogenic fibre is lactulose, citrus pectin, apple pectin, carrot pectin, soybean fibre, soy fibre, acacia gum, gum Arabic or a mixture thereof.
3. The use according to claim 1 or 2, wherein the amount of acetogenic fibres in the composition is in the range of from 0.2 to 90 % by weight, preferably from 0.5 to 50 % by weight, more preferably 0.7 to 30 % by weight, even more preferably 5 to 25 % by weight, most preferred about 7 % by weight, based on the total weight of the composition.
4. The use according to any preceding claim, for increasing insulin sensitivity and/or preventing dyslipidemia.
5. A method for treating, preventing and/or improving insulin resistance which comprises administering an effective amount of a composition comprising acetogenic fibres.
6. The method of claim 5 wherein the acetogenic fibres are administered in an amount of from 0.1 to 1.5g per kg body weight, preferably from 0.3 to 0.8g per kg body weight, more preferably 0.5 g per kg body weight